

California Energy Commission



CLASSIFICATION: Electric Generation System Specialist I

TENURE: Permanent

TIME BASE: Full-Time

SALARY: \$6,590.00 - \$8,153.00

LOCATION: Energy Generation Research Office
Energy Research and Development Division

FINAL FILING DATE: Until Filled

DUTIES/RESPONSIBILITIES:

Under the direction and supervision of the Electric Generation Systems Specialist III, the incumbent serves as part of Renewable Integration Research team to plan and implement research, development, and demonstration (RD&D) projects that advance renewable energy and distributed generation technologies. The incumbent plans, organizes, implements, and reports on the Electric Program Investment Charge (EPIC) program activities relating to the development of clean and affordable electricity generation. The goal of EPIC is to fund electric public interest investments that provide electricity ratepayer benefits, defined as promoting greater system reliability, lower costs and increased safety.

The incumbent will address the research issues affecting the design, operation, and integration of new energy technologies; identify and monitor research needs, such as methods, models, and techniques, to advance the energy system and renewable and distributed energy resources; focus on both community-scale and utility-scale renewable energy opportunities; evaluate the cost, design, operation, and locations of various generation; and review, prepare, and publish reports. Position requires developing knowledge in advancing renewable energy from a total system's perspective, including generation, distribution system (controls, communication, and functions), storage, plug-in electric vehicle, demand response, forecasting, flexible generation, and managing load.

While performing the duties described below, the incumbent will be required to work alone, work within a team, utilizing a personal computer and appropriate Energy Commission software such as the Microsoft suite of software, electronic mail and the Internet. The incumbent will be required to plan, organize, assist and/or participate in meetings with other Energy Commission staff, staff from other federal and state agencies, consultants, contractors, and other parties active in energy-related research and development. The incumbent will perform duties as follows:

- Conduct EPIC Program planning and implementation, including implementation of the Investment Plans; EPIC RD&D planning, contracting and grant award activities; and develop and implement innovative ideas, concepts and efforts to incubate new clean energy technology products and solutions through RD&D and market facilitation. The incumbent engages in completing complex technical analysis, evaluations, field demonstrations and systems tradeoffs on the ability of new and emerging renewable generation, distributed generation, and other energy technologies to conform to planning and operational elements of electric generation systems. Develop and use complex system models that will evaluate

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and assess the performance, reliability and capability of new energy technologies to perform in electricity systems both as individual technologies and within a larger portfolio of many different new technologies. Evaluate the ability of new technologies to fit in with present and future community-scale electricity generation resource adequacy. Using and interpreting the output of computer models, the incumbent will evaluate the potential impacts of the new technologies on state mandated goals such as higher levels of electricity generation from renewable resources, reduction of greenhouse gas emissions from CHP systems, maintenance of reliable electricity delivery, reduction of natural gas use, and the need for emission reduction credits.

- Lead the research, design and development of new renewable generation and distributed generation technologies to ensure that they will, whether taken individually or as a group, fit in with electricity systems in terms of operation, characteristics, and benefits. The incumbent implement solicitations and collaborative strategies to meet EPIC Program goals through project development by defining the project scope, work statement, and budget. The incumbent reviews proposals to determine how well the project addresses the scope of the solicitation criteria including, but not limited to: the extent the project will advance science or technology, address market issues and needs, meet specified target goals and objectives; the skill and experience of the project team to carry out the technical tasks within budget and schedule, and move the results into the marketplace; and the adequacy of the project funding. The incumbent prepares written findings of such evaluations for use by technical scoring committee. The incumbent briefs Office, Division, Commission management and Commissioners on the status of the projects.
- Consult with and advise the Electric Generation Systems Specialist III, Energy Resources Specialist III, Division management and Commissioners on a variety of energy systems integration and research needs related to renewable energy and distributed generation technologies and their application on the electricity generation systems. Participate in identification of issues and analytic methodologies.
- Participate in the development of the EPIC Program annual report to the California Public Utilities Commission. Work with stakeholders and synthesize complex information from many sources into consensus (where feasible) regarding the direction of the electricity environmental-related RD&D.

WORKING CONDITIONS:

Work is performed primarily in an office and hearing room environment and may require sitting for long periods of time. Work area is well lighted and ventilation is adequate. The noise level is sometimes high. Some travel is required to attend off-site meetings.

DESIRABLE EXPERIENCE/QUALIFICATIONS:

- Excellent interpersonal skills and expected to work within a large team environment.
- Ability to communicate complicated information in a simple, consumer-friendly manner.
- Ability to coordinate interdisciplinary projects.

The full duty statement is available at <http://www.energy.ca.gov/careers/jobs.html>

WHO MAY APPLY: All interested eligible persons are encouraged to apply. Interested applicants must submit a completed Standard State Application (Form STD. 678) to the address listed below. Electronic applications will not be accepted. **You must clearly indicate the basis of your eligibility (i.e., list, transfer, SROA/Surplus, reinstatement, etc.) and include RPA #320-220, Position #3200-4841-003 in the explanation section of the STD. 678.**

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PLEASE NOTE: Possession of minimum qualifications will be verified prior to interview and/or appointment. If it is determined an applicant does not meet the minimum qualifications, the application may be forwarded to the State Personnel Board for review and the applicant's name may be removed from the eligibility list.

INTERESTED APPLICANTS SHOULD SUBMIT A COMPLETED STANDARD STATE APPLICATION (FORM STD. 678) TO:

California Energy Commission (RPA 320-220)
Personnel Services Office
1516 Ninth Street, M.S. #3
Sacramento, CA 95814
(916) 654-4309

personnelservices@energy.ca.gov

**California Relay (Telephone) Service for the
Deaf or Hearing-Impaired**
From hTDD Phones: 1-800-735-2929
From Voice Phones: 1-800-735-2922